Short Communication

Current trends of application of artificial intelligence benefits and challenges in nursing education and service

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Abstract

Nowadays, Artificial Intelligence (AI) application in so many sectors like industries, educational institutions and in healthcare. It is a mandatory one in the recent years. Now, AI has using for many areas of healthcare sector. In that particularly, nursing care through AI via patients' care. AI can also assist to the nurses in many ways like maintaining the workflows and to take prompt decision in-time and to give necessary and needed of a particular patient in ICU and other areas of their hospital setting. [4] AI is using to find the correct clinical burden of patients then and there.

AI is assessing the nursing students' skill in education and clinical skills and also identifying about the gap of the knowledge and also educational interventions. AI gives the most recent information, recent practices in nursing education in the world level, fostering continuous learning and professional development also. AI can also be using in the data analysis, for prediction, for decision taken, to improve the researchers to get many important findings from the patients' data. Nursing teaching staffs can also usage of AI in their teaching methods and to improve the quality and the development of nursing education. Nurses must be involved in the design, development and application / implementation of AI to ensure its tools coincide to their clinical knowledge and related to patients' data. Proper training to be given in AI to the nurses related to their respective department, making collaboration and shared decision making.
From this I concluded that, the AI technologies are very much useful in healthcare sector, to nurses and teaching staffs.

Keywords: Artificial Intelligence, nurses, healthcare sector, educational institutions, hospital, research

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Introduction

Nowadays, Artificial Intelligence (AI) [1] application in so many sectors like industries, educational institutions and in healthcare. It is a mandatory one in the recent years. Now, AI has using for many areas of healthcare sector. In that particularly, nursing care through AI via patients' care. [2] In that way nursing services has maintain the timely care to the inpatients of their respective hospitals. Even though AI giving prompt usage to the nurses, but they are very careful about the consideration and navigation. Ai in nursing the prompt service to the patients. [3] AI can also assist to the nurses in many ways like maintaining the workflows and to take prompt decision in-time and to give necessary and needed of a particular patient in ICU and other areas of their hospital setting. [4] AI is using to find the correct clinical burden of patients then and there. Especially, AI is using in their night duty times in enormous ways. Analyzing the huge data of patients and to take correct decision to give the appropriate service to them in-time. AI gives the correct information about the particular patients to the concern nurses to give prompt service to the same patients. In this article, I have discussed about the current trends of application of artificial intelligence benefits and challenges in nursing education and service.

Application of Artificial Intelligence in Nursing Education:

AI impact in nursing education is the very important one. [5] It gives many good ideas to make curriculum design and mode of

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instruction methodologies. It will give virtual simulations and an educational tool by AI provides good and informative learning experiences to the nursing students. [6] AI is assessing the nursing students' skill in education, and clinical skills and also identifying about the gap of the knowledge and also educational interventions. AI gives the most recent information, recent practices in nursing education in the world level, fostering continuous learning and professional development also. There are other challenges like necessary faculty training, investment in infrastructure, and ethical use of AI within the educational institutions. AI in enhancing the quality and effectiveness of nursing education. [7]

Application of Artificial Intelligence in nursing research:

AI can also be using in the data analysis, for prediction, for decision taken, to improve the researchers to get many important findings from the patients' data. AI also acts as a tool to the medical researchers as research papers writing, framing literature reviews, to do data analysis, and to produce pre-drafts for checking the existing results. [8] This type of activities to be increase the overall quality of the researchers in the nursing and medical field. AI is very much useful to write the review of literature of any type of studies in Nursing. AI can accelerate the research activities among the nursing educators and working as a nurse. [9] But, that research proposals would be approved by the hospital research committee as well. Without the hospital administration approval no one can precede the research. Moreover there is a danger in it of excessively depend on AI application, which could affect the thinking ability and creativity of the academicians. [9–10] Automatically, the research ideas are in increasing mode, developing nursing sector and no. of researches would be increased in healthcare related studies. Nursing teaching staffs can also usage of AI in their teaching methods and to improve the quality and the development of nursing education. [11]

Challenges in Nursing practice:

AI technologies is used in big data analysis, predictive models, to take prompt decision, empowering scientific researchers to do valuable research from the available healthcare mass data in their working hospital or teaching hospital. [12] Nurses must be involved in the design, development and application / implementation of AI to ensure its tools coincide to their clinical knowledge and related to patients' data. Proper training to be given in AI to the nurses related to their respective department, making collaboration and shared decision making. Proper guidelines, rules and regulations must be made to operate AI technologies in the nursing health care. Ethical issues will come in terms of data privacy, algorithmic bias, and patient consent. [13] Nurses are needy digital literacy skills to operate this type of AI technologies. Online training is necessary to equip their workforce with the knowledge of AI systems and keen knowledge is needed to fulfill these types of works in their respective wards/works.

Conclusion

From this article, Artificial Intelligence technologies are an essential one in the modern world environment. AI can help to the nursing teaching staffs and nurses in various sectors in a remarkable way. Nursing teaching staffs can also usage of AI in their teaching methods and to improve the quality and the development of nursing education. But, to operate the AI systems nurses are need proper training and its related knowledge. Hence, AI is a mandatory one in the health sector and as well as in the teaching nursing institutions.

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